

- Studying $H \rightarrow VV$ tensor structure in $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channel with emphasis on measurement of CP-violation/anomalous couplings
- Assuming Spin-0 resonance and modelling arbitrary CP-structure with Higgs characterisation model using framework of effective field theory
(arXiv:1306.6464v3 [hep-ph])
- On-going:
 - So far generator level studies, start of official request for SM ggf + vbf MG5 samples
 - Any idea how to generate VH production with hadronic V decay in MG5?
VBF + VH: generate $p\ p \rightarrow x0\ jj$
VBF wo. VH: generate $p\ p \rightarrow x0\ jj\ \$\$ w+\ w-\ z$
VH wo. VBF: ?
 - Is there an interference term on ME level for the mixture of a scalar (0^+) with a pseudoscalar (0^-) particle?